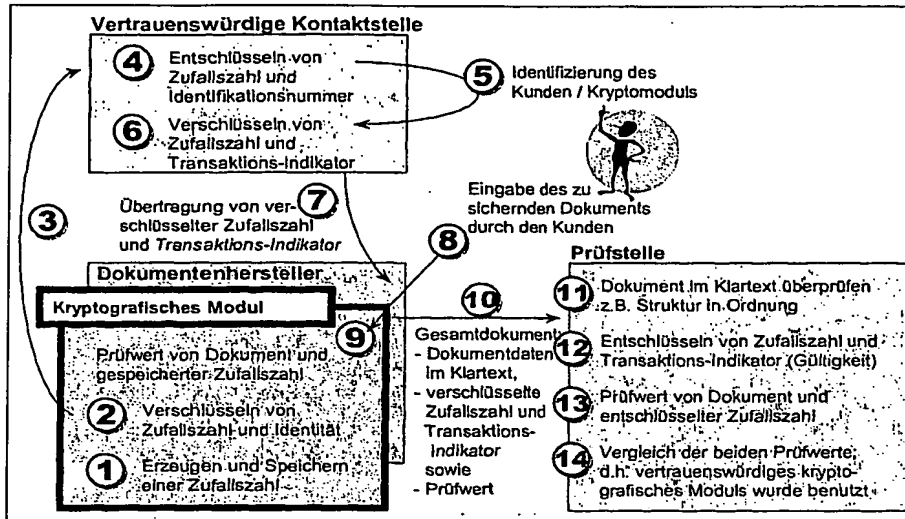


Figure 1



**Document producer**

**Cryptographic module**

- 1 Generating and storing a random number
- 2 Encrypting the random number and identity
- 3 ←

**Reliable contact station**

- 4 Decrypting the random number and the identification number
- 5 Identifying the customer / crypto-module
- 6 Encrypting the random number and the transaction indicator
- 7 Transmitting the encrypted random number and the transaction indicator
- 8 Entry by the customer of the document to be protected
- 9 Check value of the document and of the stored random number
- 10 Entire document:
  - document data in plain text
  - encrypted random number and transaction indicator as well as
  - check value

**Checking station**

- 11 Checking document in plain text, e.g. structure correct
- 12 Decrypting the random number and the transaction indicator (validity)
- 13 Check value of the document and of the decrypted random number
- 14 Comparing the two check values; i.e. reliable cryptographic module was used

Figure 2

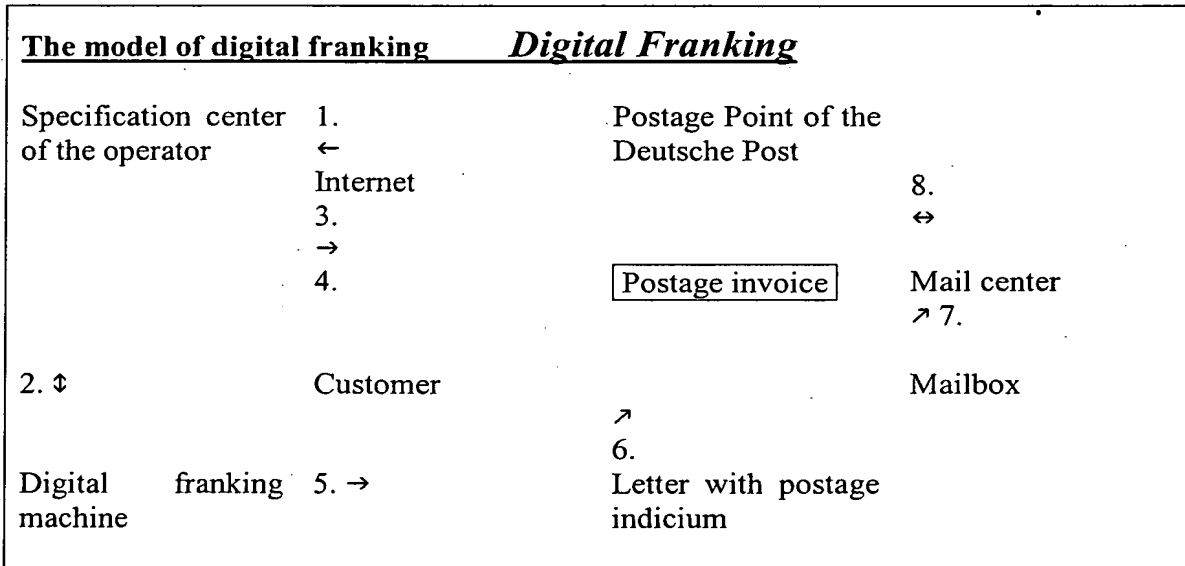
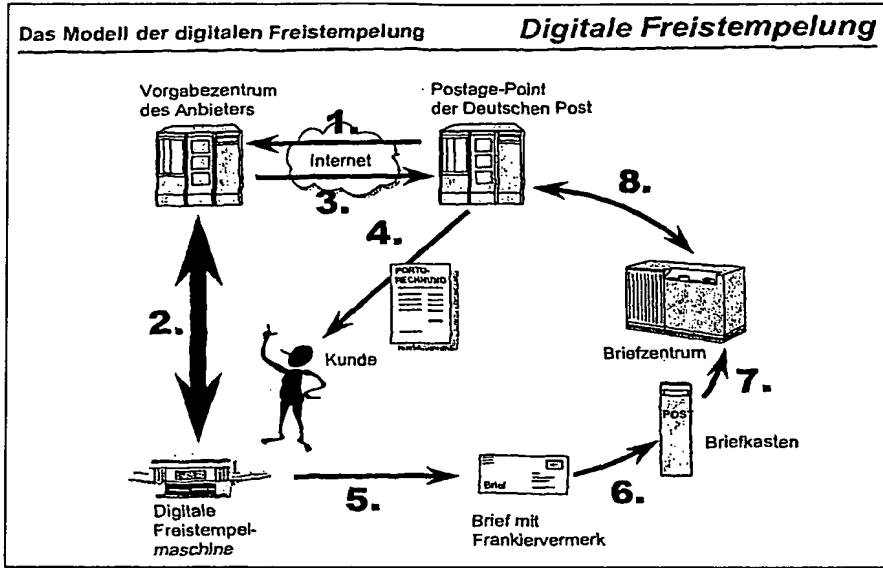
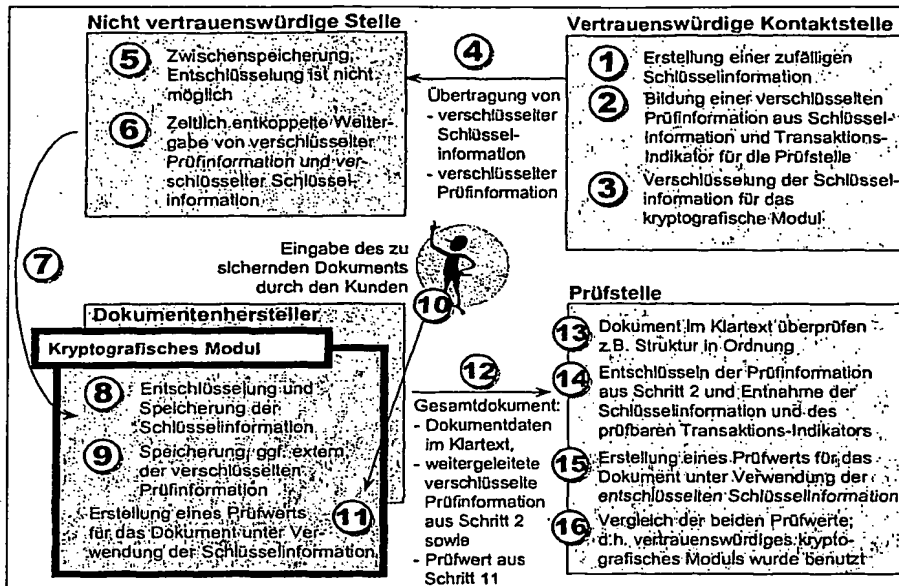


Figure 3



**Reliable contact station**

- 1 Generating random key information
- 2 Forming encrypted checking information from key information and from the transaction indicator for the checking station
- 3 Encrypting the key information for the cryptographic module
- 4 Transmitting
  - encrypted key information
  - encrypted checking information

**Non-reliable station**

- 5 Intermediate storage, decryption is not possible
- 6 Forwarding encrypted checking information and encrypted key information at a different point in time
- 7 ↓

**Document producer**

**Cryptographic module**

- 8 Decrypting and storing the key information
- 9 Storing the encrypted checking information – optionally externally
- 10 Entry by the customer of the document to be protected
- 11 Forming a check value for the document using the key information
- 12 Entire document:
  - document data in plain text
  - forwarded encrypted checking information from Step 2 as well as
  - check value from Step 11

**Checking station**

- 13 Checking document in plain text, e.g. structure correct
- 14 Decrypting the checking information from Step 2 and removing the key information and the checkable transaction indicator
- 15 Forming a check value for the document using the decrypted key information
- 16 Comparing the two check values; i.e. a reliable cryptographic module was used